



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 2000

| Location   | Date | Time<br>Local/<br>Standard | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Killed | Number of<br>Persons<br>Injured | Estimated<br>Damage<br>Property | Estimated<br>Damage<br>Crops | Character of Storm      |
|--|------|----------------------------|---------------------------|--------------------------|--------|---------------------------------|---------------------------------|------------------------------|-------------------------|
| <b><u>IOWA, Northeast</u></b>  |      |                            |                           |                          |        |                                 |                                 |                              |                         |
| Winneshiek County<br>6 NE Decorah  | 02   | 1515CST                    |                           |                          | 0      | 0                               | 5K                              |                              | Thunderstorm Wind (G55) |
| Allamakee County<br>6 E Hanover to<br>8 E Hanover  | 02   | 1535CST<br>1540CST         | 2                         | 50                       | 0      | 0                               |                                 | 20K                          | Tornado (F0)            |
| Chickasaw County<br>Alta Vista   | 02   | 1538CST                    |                           |                          | 0      | 0                               |                                 |                              | Thunderstorm Wind (G52) |
| Chickasaw County<br>4 N Ionia  | 02   | 1549CST                    |                           |                          | 0      | 0                               |                                 | 15K                          | Hail (0.88)             |
| Chickasaw County<br>Nashua   | 02   | 1600CST                    |                           |                          | 0      | 0                               | 1K                              |                              | Thunderstorm Wind (G55) |
| Chickasaw County<br>2 NW New Hampton   | 02   | 1610CST                    |                           |                          | 0      | 0                               |                                 | 12.5K                        | Hail (0.88)             |
| Chickasaw County<br>New Hampton  | 02   | 1615CST                    |                           |                          | 0      | 0                               |                                 | 10K                          | Hail (0.75)             |
| Allamakee County<br>Rossville  | 02   | 1640CST                    |                           |                          | 0      | 0                               |                                 |                              | Hail (0.75)             |
| Allamakee County<br>5 N Harpers Ferry  | 02   | 1643CST                    |                           |                          | 0      | 0                               |                                 |                              | Hail (0.75)             |
| Allamakee County<br>Harpers Ferry  | 02   | 1645CST                    |                           |                          | 0      | 0                               | 3K                              |                              | Hail (0.75)             |
| Law enforcement officials reported a tornado touched down briefly near Hanover (Allamakee County), but only damaged some corn fields. Elsewhere across northeast Iowa, several trees were knocked down by thunderstorm wind gusts of 60 to 65 mph and hail the size of dimes and quarters was also reported. |      |                            |                           |                          |        |                                 |                                 |                              |                         |
| Allamakee County<br>Countywide   | 02   | 1627CST<br>1855CST         |                           |                          | 0      | 0                               | 75K                             | 60K                          | Flash Flood             |
| Law enforcement officials reported several gravel roads were washed out due to flash flooding. In addition, campgrounds near Harpers Ferry had to be evacuated due to high water.  |      |                            |                           |                          |        |                                 |                                 |                              |                         |
| Floyd County<br>Charles City   | 09   | 2335CST                    |                           |                          | 0      | 0                               | 35K                             | 30K                          | Thunderstorm Wind (G55) |
| Floyd County<br>Nora Spgs  | 09   | 2335CST                    |                           |                          | 0      | 0                               | 8K                              | 30K                          | Thunderstorm Wind (G55) |
| Chickasaw County<br>1 N Nashua   | 09   | 2350CST                    |                           |                          | 0      | 0                               | 20K                             | 45K                          | Thunderstorm Wind (G55) |
| Howard County<br>Cresco  | 09   | 2355CST                    |                           |                          | 0      | 0                               | 30K                             | 35K                          | Thunderstorm Wind (G55) |
| Mitchell County<br>Stacyville  | 09   | 2355CST                    |                           |                          | 0      | 0                               | 18K                             | 25K                          | Thunderstorm Wind (G50) |
| Chickasaw County<br>New Hampton  | 10   | 0010CST                    |                           |                          | 0      | 0                               | 50K                             | 40K                          | Thunderstorm Wind (G52) |
| Fayette County<br>Alpha  | 10   | 0015CST                    |                           |                          | 0      | 0                               | 10K                             | 35K                          | Thunderstorm Wind (G52) |
| Fayette County<br>Waucoma  | 10   | 0015CST                    |                           |                          | 0      | 0                               | 20K                             | 30K                          | Thunderstorm Wind (G53) |
| Fayette County<br>West Union   | 10   | 0020CST                    |                           |                          | 0      | 0                               | 20K                             | 45K                          | Thunderstorm Wind (G55) |



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|----------|------|----------------------------|---------------------------|--------------------------|--|---------------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--|---------------------------------------|--------------------|

### IOWA, Northeast

|                              |    |         |  |  |     |         |                         |
|------------------------------|----|---------|--|--|-----|---------|-------------------------|
| Winneshiek County<br>Decorah | 10 | 0040CST |  |  | 0 0 | 25K 35K | Thunderstorm Wind (G54) |
| Allamakee County<br>Hanover  | 10 | 0045CST |  |  | 0 0 | 18K 35K | Thunderstorm Wind (G56) |
| Clayton County<br>Volga      | 10 | 0045CST |  |  | 0 0 | 15K 25K | Thunderstorm Wind (G52) |
| Clayton County<br>Monona     | 10 | 0050CST |  |  | 0 0 | 35K 40K | Thunderstorm Wind (G55) |

60 to 65 mph wind gusts caused widespread damage, knocking down numerous trees and power lines. In addition, hundreds of acres of corn and soybeans were damaged.

|                                |          |                    |  |  |     |         |             |
|--------------------------------|----------|--------------------|--|--|-----|---------|-------------|
| Howard County<br>Countywide    | 09<br>10 | 2350CST<br>0220CST |  |  | 0 0 | 55K 40K | Flash Flood |
| Winneshiek County<br>Decorah   | 10       | 0029CST<br>0300CST |  |  | 0 0 | 30K 15K | Flash Flood |
| Allamakee County<br>Countywide | 10       | 0100CST<br>0300CST |  |  | 0 0 | 35K 30K | Flash Flood |

3 to 4 inches of rain within a couple of hours caused flash flooding, which washed out several county roads and damaged crops. In Decorah (Winneshiek County), city streets were covered by as much as a foot of water.

### IAZ008-018

|                  |         |  |  |  |     |          |       |
|------------------|---------|--|--|--|-----|----------|-------|
| Mitchell - Floyd |         |  |  |  |     |          |       |
| 10               | 2200CST |  |  |  | 0 0 | 85K 110K | Flood |
| 13               | 0400CST |  |  |  |     |          |       |

Flooding rains that fell near the Minnesota-Iowa border during the early morning of July 9 and 10 caused the Cedar River to rise quickly. Due to high water, several roads had to be closed and some residents were forced to sandbag to protect homes and businesses. Crops near the river that had been resown due to flooding in June were lost once again. At Charles City (Floyd County), the river crested on July 12 at 17.5 feet, which is 5.5 feet above flood stage.

### MINNESOTA, Southeast

|                               |    |         |  |  |     |     |           |
|-------------------------------|----|---------|--|--|-----|-----|-----------|
| Houston County<br>Brownsville | 02 | 0745CST |  |  | 0 0 | 25K | Lightning |
|-------------------------------|----|---------|--|--|-----|-----|-----------|

Lightning struck a home and started a fire, causing considerable damage to the residence, but there were no injuries.

|                              |    |         |  |  |     |          |                         |
|------------------------------|----|---------|--|--|-----|----------|-------------------------|
| Wabasha County<br>Lake City  | 07 | 1135CST |  |  | 0 0 | 40K 150K | Hail (1.00)             |
| Wabasha County<br>Conception | 07 | 1200CST |  |  | 0 0 |          | Hail (0.75)             |
| Wabasha County<br>Wabasha    | 07 | 1312CST |  |  | 0 0 |          | Thunderstorm Wind (G50) |

Hail up to an inch in diameter damaged nearly 300 acres of crops near Lake City (Wabasha County), including a couple of apple orchards, which suffered a complete loss. Several vehicles sustained hail damage as well. The hail storm was considered one of the worst in the area in almost three decades.

|                                  |    |         |  |  |     |       |                         |
|----------------------------------|----|---------|--|--|-----|-------|-------------------------|
| Fillmore County<br>1 S Chatfield | 09 | 0420CST |  |  | 0 0 | 0.75K | Thunderstorm Wind (G55) |
| Fillmore County<br>3 W Bristol   | 09 | 0430CST |  |  | 0 0 | 2.5K  | Thunderstorm Wind (G52) |



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|----------|------|----------------------------|---------------------------|--------------------------|----------------------|---------|---------------------|-------|--------------------|
|          |      |                            |                           |                          | Killed               | Injured | Property            | Crops |                    |

### MINNESOTA, Southeast

#### Fillmore County

##### Granger

09 0440CST

0

0

1K

Thunderstorm Wind (G54)

Law enforcement officials estimated wind gusts of 60 to 65 mph, which blew down trees and damaged the roof on a farm building

#### Fillmore County

##### Countywide

09 0810CST  
1100CST

0

0

35K

25K

Flash Flood

#### Dodge County

##### South Portion

09 0920CST  
1215CST

0

0

25K

20K

Flash Flood

#### Mower County

##### Countywide

09 0920CST  
1215CST

0

0

20K

25K

Flash Flood

3 to 4 inches of rain in a couple of hours caused flash flooding, which forced the closure of several roads due to high water. Spring Valley Creek rose so rapidly that residents of Spring Valley (Fillmore County) were forced to sandbag around homes and businesses.

#### Mower County

##### 5 E Austin

09 2335CST

0

0

Hail (0.75)

#### Mower County

##### Countywide

10 0004CST  
0200CST

0

0

75K

60K

Flash Flood

3 to 4 inches of rain caused flash flooding, which forced the closure of several roads due to washouts. Numerous homes and businesses, especially in Austin, were damaged by flood waters.

#### Dodge County

##### Countywide

10 0033CST  
0320CST

0

0

65K

85K

Flash Flood

3 to 4 inches of rain caused flash flooding problems, with several roads closed due to high water. In fact, law enforcement officials reported two feet of water across Highway 218 in the southwest part of the county.

#### Fillmore County

##### Countywide

10 0100CST  
1045CST

0

0

150K

100K

Flood

After 3 to 4 inches of rain hit the area during the early morning of July 9, similar amounts in the early morning hours of July 10 caused extensive flash flooding, especially in Spring Valley. 50 residents of a nursing home had to be evacuated due to rapidly rising flood waters. In a separate incident, two individuals had to be rescued when they tried to cross a flooded area on foot. Low spots in fields became swollen rivers, flattening acres and acres of corn.

#### Houston County

##### Countywide

10 0100CST  
0300CST

0

0

25K

20K

Flash Flood

Law enforcement officials reported numerous county roads were flooded after 3 to 4 inches of rainfall occurred within a two hour period.

#### MNZ094

##### Mower

10 0200CST  
11 1700CST

0

0

400K

200K

Flood

6 to 7 inches of rain over a two-day period resulted in the Cedar River reaching unprecedented levels. At Austin, the river crested at a record 23.4 feet on July 11, nearly 8.5 feet above flood stage. This broke the previous flood of record, which was 21.9 feet set in July 1978. Interstate 90 and several other roads had to be closed due to high water. Numerous homes and businesses were damaged by flood waters.



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|----------|------|----------------------------|---------------------------|--------------------------|--------|---------------------------------|---------------------------------|-------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------|---------------------------------|---------------------------------|-------|--------------------|

### MINNESOTA, Southeast

MNZ095>096

Fillmore - Houston

|    |         |   |   |      |      |       |
|----|---------|---|---|------|------|-------|
| 10 | 0500CST | 0 | 0 | 155K | 325K | Flood |
| 13 | 2000CST |   |   |      |      |       |

Flooding rains that fell during the early morning of July 9 and 10 caused the Root River to overflow its banks for the second time in as many months. A family living along the river near Hokah (Houston County) had to be rescued due to rising water. Extensive flooding of farmland negated the reseeding of crops, which were lost due to flooding in June. At Hokah, the river crested on July 12 at 49.4 feet, nearly 2.5 feet above flood stage.

### WISCONSIN, Southwest

Clark County

|           |    |         |  |  |   |   |  |  |             |
|-----------|----|---------|--|--|---|---|--|--|-------------|
| 5 W Thorp | 08 | 2020CST |  |  | 0 | 0 |  |  | Hail (0.75) |
|-----------|----|---------|--|--|---|---|--|--|-------------|

Clark County

|             |    |         |  |  |   |   |       |  |                         |
|-------------|----|---------|--|--|---|---|-------|--|-------------------------|
| Neillsville | 08 | 2155CST |  |  | 0 | 0 | 0.25K |  | Thunderstorm Wind (G52) |
|-------------|----|---------|--|--|---|---|-------|--|-------------------------|

Trempealeau County

|       |    |         |  |  |   |   |  |     |             |
|-------|----|---------|--|--|---|---|--|-----|-------------|
| Eleva | 09 | 0116CST |  |  | 0 | 0 |  | 10K | Hail (0.88) |
|-------|----|---------|--|--|---|---|--|-----|-------------|

Buffalo County

|               |    |         |  |  |   |   |      |  |                         |
|---------------|----|---------|--|--|---|---|------|--|-------------------------|
| Fountain City | 09 | 0210CST |  |  | 0 | 0 | 2.5K |  | Thunderstorm Wind (G55) |
|---------------|----|---------|--|--|---|---|------|--|-------------------------|

Monroe County

|                                 |    |                    |     |    |   |   |     |     |              |
|---------------------------------|----|--------------------|-----|----|---|---|-----|-----|--------------|
| 2 SE Norwalk to<br>3 SE Norwalk | 09 | 0300CST<br>0303CST | 0.9 | 30 | 0 | 0 | 50K | 15K | Tornado (F1) |
|---------------------------------|----|--------------------|-----|----|---|---|-----|-----|--------------|

A tornado touched down at the intersection of County Road T and Levi Road about 2 miles southeast of Norwalk (Monroe County). A large machine shed was demolished on the south side of Levi Road, while the house on the north side was untouched. Some lawn furniture was pulled into the tornado, but a nearby camper was left untouched. At the next residence, a large barn and smaller shed were both demolished. Several windows on the west and south side of the house were broken and an air conditioner was blown into the house. The roof of the house was lifted along the west side approximately 3 inches, which allowed wind to enter the house and blow insulation out of the ceiling. Two adults sleeping upstairs were blown against the east wall, but were not injured. Elsewhere across west central Wisconsin, law enforcement officials reported dime to nickel hail as well as power lines and trees downed.

Crawford County

|                  |    |         |  |  |   |   |    |     |                         |
|------------------|----|---------|--|--|---|---|----|-----|-------------------------|
| Prairie Du Chien | 10 | 0110CST |  |  | 0 | 0 | 5K | 15K | Thunderstorm Wind (G55) |
|------------------|----|---------|--|--|---|---|----|-----|-------------------------|

Grant County

|        |    |         |  |  |   |   |      |     |                         |
|--------|----|---------|--|--|---|---|------|-----|-------------------------|
| Bagley | 10 | 0110CST |  |  | 0 | 0 | 2.5K | 10K | Thunderstorm Wind (G53) |
|--------|----|---------|--|--|---|---|------|-----|-------------------------|

60 to 65 mph wind gusts caused damage to trees, power lines and crops.

Vernon County

|                                       |    |                    |     |    |   |   |    |     |              |
|---------------------------------------|----|--------------------|-----|----|---|---|----|-----|--------------|
| 3 NW Chaseburg to<br>2.5 NW Chaseburg | 26 | 1520CST<br>1523CST | 0.5 | 30 | 0 | 0 | 8K | 12K | Tornado (F0) |
|---------------------------------------|----|--------------------|-----|----|---|---|----|-----|--------------|

A small tornado touched down briefly, causing minor damage to a home and knocking down corn.

Vernon County

|            |    |                    |  |  |   |   |     |     |             |
|------------|----|--------------------|--|--|---|---|-----|-----|-------------|
| Countywide | 26 | 1900CST<br>2120CST |  |  | 0 | 0 | 35K | 15K | Flash Flood |
|------------|----|--------------------|--|--|---|---|-----|-----|-------------|

3 to 4 inches of rain in a couple of hours caused flash flooding, which washed out a few roads and triggered some mudslides. Coon Creek rose rapidly as well, flooding lower sections of Chaseburg.



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|----------|------|--------------------|-------------------|------------------|-----------|---------|-----------|-------|--------------------|
|          |      | Local/<br>Standard | Length<br>(Miles) | Width<br>(Yards) | Killed    | Injured | Property  | Crops |                    |

### WISCONSIN, Southwest

#### Richland County

|               |    |                    |  |  |   |   |     |     |             |
|---------------|----|--------------------|--|--|---|---|-----|-----|-------------|
| North Portion | 26 | 2000CST<br>2230CST |  |  | 0 | 0 | 30K | 15K | Flash Flood |
|---------------|----|--------------------|--|--|---|---|-----|-----|-------------|

3 to 5 inches of rain fell in a couple of hours, causing as much as a foot of water over Highway 56 and Highway 80. In addition, law enforcement officials reported a few mudslides.